UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/522,206	01/19/2005	Wilfried Hofmann	VBW 5648	3689	
321 SENNIGER PO	7590 01/03/2008 DWERS		EXAMINER .		
ONE METROF	POLITAN SQUARE	LEO, LEONARD R			
	16TH FLOOR ST LOUIS, MO 63102		ART UNIT	PAPER NUMBER	
·			3744	-	
			NOTIFICATION DATE	DELIVERY MODE	
			01/03/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspatents@senniger.com

	Application No.	Applicant(s)				
	10/522,206	HOFMANN, WILFRIED				
Office Action Summary	Examiner	Art Unit				
	Leonard R. Leo	3744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 15-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 15-21,23,25,27-30,33 and 34 is/are rejected. 7) Claim(s) 22,24,26,31 and 32 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

10/522,206 Art Unit: 3744

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15-18, 28 and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Sauchekku et al (JP 11-186762).

Regarding claims 17-18, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). In this instance, the device of Sauchekku et al meets the claimed structural limitations.

Regarding claim 28, Sauchekku et al (paragraph 12) discloses an aluminum substrate 1.

Regarding claim 33, Sauchekku et al (paragraph 43) discloses the substrate may be used with other components in the computer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10/522,206 Art Unit: 3744

Claims 19-20 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sauchekku et al.

Sauchekku et al discloses all the claimed limitations except channels clongated in the flow direction.

The specific orientation of the channels is considered to be an obvious design expedient, producing no new and/or unexpected results and solving no stated problem. One of ordinary skill in the art would orient the channels elongated in the flow direction to increase airflow while minimizing pressure losses.

Claims 21, 23, 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sauchekku et al in view of Nair et al.

The device of Sauchekku et al lacks the substrate placed on spacers.

Nair et al discloses a heat exchanger comprising a substrate 23; blower 70; and a plurality of spacers 17 supporting the substrate for the purpose of minimizing bypass of the airflow through the longitudinal channels *S*.

Since Sauchekku et al and Nair et al are both from the same field of endeavor and/or analogous art, the purpose disclosed by Nair et al would have been recognized in the pertinent art of Sauchekku et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Sauchekku et al guide plates redirecting cooling fluid for the purpose of minimzing the device footprint as recognized by Nair et al.

Regarding claim 23, Figure 7a of Nair et al discloses channels 25 aligned with the longitudinal channels S.

Art Unit: 3744

Regarding claims 25 and 27, Sauchekku et al discloses the spacers 13 are composed of aluminum (paragraph 14).

Regarding claims 30 and 34, Figure 14 of Nair et al discloses guide plate 91.

Allowable Subject Matter

Claims 22, 24, 26 and 31-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard R. Leo whose telephone number is (571) 272-4916. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/522,206 Art Unit: 3744

Page 5

/ LEONARD R. LEO / PRIMARY EXAMINER ART UNIT 3744

December 26, 2007